10-20-06

PTO/SB/21 (07-06)
Approved for use through 09/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANS	MIT	T	AL
FO	RM		

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Signature

Application Number	10/797,661	$\overline{}$
Filing Date	March 10, 2004	
First Named Inventor	Kei Hiruma	
Art Unit	2871	
Examiner Name	SCHECHTER, Andrew M	
Attorney Docket Number	9319G-000730	

		ENCLOSURES (check all that apply)				
Fee Transmittal F	-om	☐ Drawing(s)		After Allowance Communication to Technology Center (TC)		
Fee Attached	I	Licensing-r	related Papers	Appeal Communication to Board of Appeals and Interferences		
☐ Amendment / Rep	ply	Petition		Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)		
After Final			Convert to a I Application	Proprietary Information		
☐ Affidavits/dec	claration(s)		attorney, Revocation Correspondence Address	☐ Status Letter		
Extension of Time	e Request	Terminal D	isclaimer	Other Enclosure(s) (please identify below):		
Express Abandonment Request		Request for Refund CD, Number of CD(s)		Form 1449 w/copies of non-US cited references; return post card		
☐ Information Disclosure Statement ☐ Landscape Table on CD						
Certified Copy of Document(s)	Certified Copy of Priority Document(s) Remarks The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit					
Reply to Missing I			ACCOUNT NO. 50-52 15.	A duplicate copy of this sheet is enclosed.		
Reply to Miss under 37 CFF	sing Parts R 1.52 or 1.53					
	SIGNA	TURE OF APP	PLICANT, ATTORNEY, OF	RAGENT		
Firm or Individual name	Harness, Dickey &	Pierge, P.C.	Attorney Name G. Gregory Schivley	Reg. No. 27,382		
Signature	Signature 9. heeps/ Ulwelle					
Date October 19, 2006						
CERTIFICATE OF TRANSMISSION/MAILING						
Service with sufficier	I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.					
Typed or printed name	G Gragany	La trade	7) [Variety Mail 51/ 757 778 162 HS (40/40/2005)		

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/of suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. 80x 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Label No.

Date

October 19, 2006

HDP/SB/17 (02-05)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2006

Effective 2/8/2006. Patent fees are subject to annual revision.

□ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT 180

	Complete if Known				
Application Number	10/797,661				
Filing Date	March 10, 2004				
First Named Inventor	Kei Hiruma				
Examiner Name	Schechter, Andrew M				
Art Unit	2871				
Attornov Docket No.	9319G-000730				

METHOD OF PAYMENT (check all that apply)				. ,		FEE C	ALCULATION (continued)			
☐ Check ☐ Ci	redit card			-	3. ADDITIONAL FEES					
DOILOCK DO		Order	Hei 🔲 140He			Entity	Sma	all Entity	t .	
□ Deposit Account □	ount:			Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
Deposit					1051	130	2051	65	Surcharge - late filing fee or oath	
Account Number	50-3213				1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Donneit					1053	130	1053	130	Non-English specification	
Deposit Account	Epson R & D	1			1812	2,520	1812	2,520	For filing a request for reexamination	
Name	<u> </u>				1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
The Director is authorized to: (check all that apply) ☑ Charge fee(s) indicated below ☑ Credit any overpayments				1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
Charge any add	litional fee(s) du	ring the pende	ncy of this applicatio	n	1251	120	2251	60	Extension for reply within first month	
☐ Charge fee(s) in to the above-identi			Tiling ree		1252	450	2252	225	Extension for reply within second month	
FEE CALCULATION				1253	1020	2253	510	Extension for reply within third month		
	LING FEE				1254	1,590	2254	795	Extension for reply within fourth month	
	<u>Small Entity</u> ee Fee F	Ena Donasistias			1255	2,160	2255	1080	Extension for reply within fifth month	
	ee ree <u>r</u> ode (\$)	ee Description	! Fee Paid		1401	500	2401	250	Notice of Appeal	
		Jtility filing fee		7	1402	500	2402	250	Filing a brief in support of an appeal	\vdash
1012 200 2		Design filing fee		1	1403	1000	2403	500	Request for oral hearing	
1013 200 20	013 100 F	Plant filing fee			1452	500	2452	250	Petition to revive – unavoidable	
1014 300 20	014 150 F	Reissue filing fe	,	1	1453	1500	2453	750	Petition to revive - unintentional	
1005 200 20	005 100 F	Provisional filling	fee	7	1462	400	1462	400	Petition fee under 37 CFR 1.17(f)	
•				_	1463	200	1463	200	Petition fee under 37 CFR 1.17(g)	
	SUBTOTAL	(1)	(\$) 0		1464	130	1464	130	Petition fee under 37 CFR 1.17(h)	
2. EXTRA CLAI	M FEES FOR	UTILITY AN	ID REISSUE		1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	. —
		Extra F	ee from Fee		1806	180	1806	180	Submission of Information Disclosure	180
Total Claims	20 ** = [Claims b	elow Paid = 0		1800	180	1000	160	Stmt Recording each patent assignment	180
Independent Claims	-3 ** =	o x	= 0	7	8021	40	8021	40	per property (times number of properties)	
Multiple Dependent			= 0	┪	1809	790	2809	395	Filing a submission after final rejection (37 CFR § 1.129(a))	
Large Entity	Small Entity	Ļ		_	1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))	
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Descri	otion		1801	790	2801	395	Request for Continued Examination (RCE)	
1202 50	2202 25	Claims in ex	cess of 20		Other fo	e (specil	5.1		(
1201 200	2201 100	Independen	claims in excess of 3	•				·		
1203 360	2203 180	Multiple dep	endent claim, if not pa	id		-	asic Fili	-	` ' <u> </u>	
1204 200	2204 100		ndependent claims over	er					N FEES	
		original pate			1111	500	2111	250	Utility Search Fee	
1205 50	2205 25	over origina	laims in excess of 20 a	and	1112	100	2112	50	Design Search Fee	
				٦ .	1113	300	2113	150	Plant Search Fee	
	su	BTOTAL (2)	(\$) 0		1114 1311	500 200	2114 2311	250 100	Reissue Search Fee	
			<u> </u>	J	1311	130			Utility Examination Fee	
					1312	160	2312 2313	65 80	Design Examination Fee	
					1313	600	2313	300	Plant Examination Fee Reissue Examination Fee	\vdash
					'3'*	ا ^س	2314	300		┸——┦
**or number previo	usly paid, if greate	r, For Reissues, :	see above						SUBTOTAL (4) (\$)0	<u> </u>

SUBMITTED BY Complete (if applicable) Registration No. (Attorney/Agent) Name (Print/Type) Telephone Signature

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide chadit card information and authorization on PTO-2038.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE STATES TATELLY AND HADEMARK OF I

Application No.:

10/797,661

Filing Date:

March 10, 2004

Applicant:

Kei Hiruma

Group Art Unit:

2871

Examiner:

SCHECHTER, Andrew M

Title:

FILM FORMING METHOD, FILM FORMING DEVICE LIQUID CRYSTAL ARRANGEMENT METHOD, LIQUID CRYSTAL ARRANGEMENT DEVICE, LIQUID CRYSTAL DEVICE, LIQUID CRYSTAL DEVICE PRODUCTION METHOD AND

ELECTRONIC EQUIPMENT

Attorney Docket:

9319G-000730

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. <u>COPIES</u>

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that

Serial No. 10/797,661

	the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.
	B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:
	U.S. Serial Number U.S. Filing Date
	C. This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)
III.	CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)
	A. Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
	B. A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
	1.⊠See the attached foreign patent office communication regarding a related foreign application in: Korea
	2. ⊠ English translations are provided as follows: As indicated on attached Form 1449.
	3. 🖂 Other: KR 2000-35404 corresponds to JP 2000-204250; KR 2002-86758 corresponds to US 2002/0167638; KR 2001-70396 corresponds to US 2001/0007733.
	C. The following additional information is provided for the Examiner's consideration:
IV.	CROSS REFERENCE TO RELATED APPLICATION(S)

Serial No. 10/797,661

	contain(s) subject matt	ter that may be relate plication(s) to the Exam	d to the present application. By hiner's attention, Applicant(s) does 35 U.S.C. § 122.
	Serial No.	Filing Date	Inventor(s)
			•
V.	THIS IDS IS BEING FIL	ED UNDER	
	A. 37 C.F.R. § 1.97(b): (check <u>only</u> one box	()
	than a continue	e months of the filing of the prosecution applicated fee or certification is rec	date of a national application other ion under § 1.53(d) (37 C.F.R. § quired.
	 2. ☐ within thre forth in § 1.491 if fee or certification 	in an international appli	f entry of the national stage as set cation (37 C.F.R. § 1.97(b)(2)). No
	1.97(b)(3)). No Office Action of under 37 C.F.R 1.97(e) below:	fee or certification is n the merits has been l. § 1.97(c) and see t or, if no certification ha	e Action on the merits (37 C.F.R. § required. In the event that a first issued, please consider this IDS he certification under 37 C.F.R. § as been made, charge our deposit as required by 37 C.F.R. § 1.17(p).
	4. Defore the for continued exist required.	e mailing of a first Office camination under 37 C.I	e Action after the filing of a request F.R. § 1.114. No fee or certification
	B. 37 C.F.R. § 1.97	(c): (check only one bo	x)
	before the maili 1.113, a Notice otherwise close	of Allowance under 3	inal Office Action under 37 C.F.R. § 7 C.F.R. § 1.311, or an action that
	1. ☐ No certific by 37 C.F.R. §		n the amount of \$180.00 is required
	2. See the c	ertification below. No fe	ee is required.
	C. 🛛 37 C.F.R. § 1.97	' (d):	

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. \boxtimes See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. <u>CERTIFICATION UNDER 37 C.F.R. § 1.97(e)</u>: (check only one box)

The undersigned hereby certifies that:

A. \(\sigma\) each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B. \(\sigma\) no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of

information contained in this IDS was known to any individual designated in 37

C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C.

some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after

making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three

VII. STATEMENT UNDER 37 C.F.R. 1.704(d)

months prior to the filing of this IDS.

The undersigned hereby states that:

- each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.
- VIII. PAYMENT OF FEES (check only one box, if applicable)

- A. \square A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. \boxtimes Please charge Deposit Account No. 50-3213 in the amount of \$180.00 for the above-identified fee.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 50-3213 (Epson R&D).

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-3213 (Epson R&D).

Respectfully submitted,

Dated: October 19, 2006

G. Gregory Schivley

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

GGS/slm

OIPE	400
oct 1	9 500g Å
TRATE TR	M I

M HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 1

ATTORNEY DOCKET No.	SERIAL NO.
9319G-000730	10/797,661
APPLICANT	
Kei Hiruma	
FILING DATE	GROUP
March 10, 2004	2871

U.S. P	ATENT DO	CUMENTS	88 °F			
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		2002/0167638	11/14/2002	Byun et al		
2.		2001/0007733	7/12/2001	Matsuyama et al		

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	* No
1.		2001-0070396	7/25/2001	Korea .			Х
2.		2002-0086758	11/20/2002	Korea			X
3.		2000-204250	7/25/2000	Japan		X	
4.		2000-0035404	6/26/2000	Korea			X
5.		2001-183514	7/6/2001	Japan		Abstract	

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials				
1.					

*One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at www.ipo.go.ip

		
Examiner:	Date Considered:	

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.